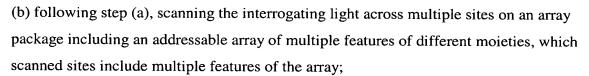
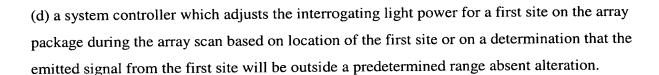
WHAT IS CLAIMED IS:

- 1. A method comprising:
- (a) scanning an interrogating light across multiple sites on an array package including an addressable array of multiple features of different moieties, which scanned sites include multiple features of the array;
- (b) detecting signals from respective scanned sites emitted in response to the interrogating light; and
- (c) altering the interrogating light power for a first site on the array package during the array scan based on location of the first site or on a determination that the emitted signal from the first site will be outside a predetermined range absent the altering.
- 2. A method according to claim 1 wherein the interrogating light power is reduced based on a determination that the emitted signal from the first site will exceed a predetermined value.
- 3. A method according to claim 1 wherein the interrogating light power is increased based on a determination that the emitted signal from the first site will be below a predetermined value.
- 4. A method according to claim 3 wherein the determination is based on the emitted signal detected from the first site.
- 5. A method according to claim 1 wherein the interrogating light power is altered based on the signal emitted from the first site when the interrogating light initially illuminates the first site.
- 6. A method according to claim 1 wherein the first site is an array feature.
- 7. A method comprising:
- (a) calibrating an interrogating light power versus a control signal characteristic, from a light system which provides the interrogating light of a power which varies in response to the control signal characteristic;



- (c) detecting signals from respective scanned sites emitted in response to the interrogating light; and
- (d) altering the interrogating light power for a first site on the array package during the array scan using the calibration of step (a), based on location of the first site or on a determination that the emitted signal from the first site will be outside a predetermined range absent the altering.
- 8. A method according to claim 7 additionally comprising repeating steps (a) through (d) for each of multiple array packages.
- 9. A method according to claim 7 wherein the light system includes a light source and an optical attenuator through which light from the source passes to provide the interrogating light, and wherein the control signal comprises a signal for the optical attenuator which provides variable attenuation in response to the characteristic of the control signal.
- 10. A method according to claim 7 wherein the interrogating light power is reduced based on a determination that the emitted signal from the first site will exceed a predetermined value.
- 11. A method according to claim 10 wherein the determination is based on the emitted signal detected from the first site.
- 12. An apparatus for interrogating an addressable array of multiple features of different moieties, carried by an array package, comprising:
- (a) a light system which provides an interrogating light of variable power in response to a control signal;
- (b) a scanning system which scans the interrogating light across multiple sites on the array package, which scanned sites include multiple features of the array;
- (c) a signal detector which detects signals from respective sites emitted in response to the interrogating light; and



- 13. An apparatus according to claim 12 wherein adjustment is based on the determination by the system controller, which is based on the emitted signal detected from the first site.
- 14. An apparatus according to claim 12 wherein the determination made by the system controller that the emitted signal from the first site during a scan is outside a predetermined range, is based on the signal emitted from the first site when the interrogating light initially illuminates the first site.
- 15. An apparatus for interrogating an addressable array of multiple features of different moieties, carried by an array package, comprising:
- (a) a light system which provides an interrogating light of variable power in response to a control signal characteristic;
- (b) a scanning system which scans the interrogating light across multiple sites on the array package, which scanned sites include multiple features of the array;
- (c) a signal detector which detects signals from respective sites emitted in response to the interrogating light; and
- (d) a system controller which calibrates interrogating light power in response to the control signal characteristic, and which adjusts the interrogating light power for a first site on the array package during the array scan using the calibration, based on location of the first site or on a determination that the emitted signal from the first site will be outside a predetermined range.
- 16. An apparatus according to claim 15 wherein the controller reduces the interrogating light power based on a determination that the emitted signal from the first site will exceed a predetermined value.
- 17. An apparatus according to claim 15 wherein the adjustment is based on the determination, which is based on the emitted signal detected from the first site.